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which very acceptable gift the thanks of the Society were voted to the donor.

All of which is respectfully submitted.

EDW. J. NOLAN,  
*Librarian.*

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### REPORT OF THE CURATORS.

The museum of the Academy is in an excellent state of preservation, and in an advanced condition of systematic arrangement. I present a report from Mr. C. F. Parker, the Curator in charge of the museum, of the work done during the year.

PHILADELPHIA, Dec. 8, 1877.

DR. JOS. LEIDY,

*Chairman of Board of Curators A. N. S.*

DEAR SIR: I herewith inclose the following report of work done in the museum:—

Mr. John A. Ryder has made a catalogue of the mammalia in the museum of the Academy, founded on Dr. Slack's catalogue (Gill's classification being adopted). He has also labelled the crania and osteological collections of bats, rodents, edentates, marsupials, and monotremes, besides the series of crania and horns that are placed around the galleries of the museum.

With the assistance of Mr. Ryder the collection of Ophidia has been undergoing a thorough overhauling, the alcohol has been renewed when necessary, the bottles washed, and new labels written, all old labels being preserved, especially those in the handwriting of distinguished herpetologists who formerly devoted attention to this department of our collection. Seventeen families have been worked over, or about three-fourths of the entire collection. The donations which have been accumulating for some years, have also been distributed in the collection in proper systematic order. Many of these prove to be desiderata to the already large collection.

The collection of Chelonia has also been labelled and arranged during the year; it is found to embrace seven families of sixty-five species, represented by about four hundred and fifty specimens.

The collections illustrating the osteology of the Chelonia, Ophidia, and Sauria have also been labelled.

A considerable number of large labels for the more striking objects in the vertebrate palæontological collections have been prepared and put in place.

The collection of mammal skins has been examined.

The whole collection of birds has been thoroughly examined and dusted, and is generally in good condition.

Mr. W. G. Freedly has finished the arrangement and labelling of the collection of birds' eggs.

The collection of sponges sent to Prof. Hyatt for study has been returned, and has since been labelled and arranged.

The cases in the Museum have all been secured, as far as possible, against dust, by the addition to the doors of strips of list. The greater part of this very necessary work was performed by Mr. Thos. P. Parker.

Most of the specimens given, deposited, and purchased during the year have been labelled, and put in their proper places.

The collection of minerals is being rearranged, and labelled according to the classification of Dana. C. F. PARKER.

Special reports on the additions and improvements to the conchological, botanical, and mineralogical cabinets, will be presented by the sections who have them in their special care.

Additions to the remaining departments of the Academy during the year are as follow:—

*Mammals*.—Mounted specimens of *Phalangista vulpina*, and *Ornithorhynchus anatus*, and skin of *Belideus*, from Tasmania, presented by W. H. Archer.

Sixteen skins, from Brazil, presented by Dr. José de Saldanha. Reindeer antlers, Cumberland Inlet, from Lient. W. A. Mintzer. Leather of Kangaroo, Tasmania, from S. Arnett.

Mounted specimen of the Spitz dog. Mrs. John B. Nimex.

*Scotophilus cinereus*, from J. O. Schimmel; *Hesperomys leucopus* and *Condylura cristata*, from Geo. Raphael. Tooth of Sperm whale, from Mrs. Paul Shirley; skull of new-born Donkey, by J. A. Ryder; and a foetal Calf, by John Winter. Numerous samples of wools, produced in Tasmania, presented by the exhibitors of the International Exhibition of 1876.

*Birds*.—*Platycercus cyanopygus*, Australia, from the Zoological Society of Philadelphia; *Conurus solstitialis*, Demerara, from S. S. Haldeman; three mounted *Cupidonia cupido* and *Buteo virginianus*, from T. R. Peale; mounted *Meleagris gallopavo*, crested variety, from J. O. Schimmel; and *Speotyto cunicularia*, from E. H. Peabody.

Twenty-three species of birds' eggs, from Beesley's Point, N. J., from Caleb Wood; eleven species from another donor; eggs of *Crax alector* and *Callisittacus novæ-hollandiæ*, from G. Pavonarius; Ostrich egg, from Michael C. Carey; specimens from Mrs.

Paul Shirley; and the malformed genitals of a fowl, from P. B. Mingle.

*Reptiles, Amphibians, and Fishes.*—Four skins of reptiles, Brazil, from Dr. José de Saldanha; a small collection of reptiles, Florida, from Lieut. A. W. Vogdes; Iguana, St. Andrews, from Albert S. Duer; and turtle eggs, Delaware, from G. Freyer. *Spelerpes ruber*, from W. F. Marshall. Small collection of fishes and reptiles, San Domingo, from W. M. Gabb.

Seventy-seven species of fishes, chiefly from east coast of United States, from the National Museum, through the Smithsonian Institution.

Specimens of the viviparous fish, *Zygonectes Notii*, Mobile, from Dr. G. H. Masten. An Eel-pout, *Zoarces anguillaris*, east coast, from G. W. Bugbee & Co.; and a second from Wm. Liming. Two fishes, Bermuda, from P. J. Lauber; *Lepidosteus*, Delaware Bay, from Mr. Holbrook; *Tetrodon laevigatus*, N. J., from Dr. Kingston Goddard; and a skeleton of a fish, Chimbote Bay, S. A., from Dr. J. T. Coates.

*Articulates.*—Seventy-one species of spiders, mostly of Pennsylvania, and a collection illustrating the habits of the American *Tarantula*, and the architecture, etc., of other spiders, presented, under certain conditions, by Rev. H. C. McCook. Scorpions, Florida, from Lieut. A. W. Vogdes. *Cenobita Diogenes*, Turk's Island, from Wm. M. Gabb; *Limulus polyphemus*, Key West, from Dr. G. R. B. Horner; and *Menippe mercenaria*, east coast, from Wm. Liming. *Fulgora lanternera*, Brazil, from T. C. Bond; and *Gryllotalpa longipennis*, from R. W. Merrill. Hornet's nest, from A. T. Goodman; and bark of Hickory mined by *Scolytus quadrispinosis*, from Dr. E. C. Evans. Cocoons and raw silk, and wax, Peru, from José Carlos Tracy; and Cochineal, reared at Cape Town, from J. McGibbon.

*Radiates and Protozoans.*—Fourteen sponges, from Florida, in exchange from the Boston Society of Natural History. Corals and hydroids, dredged off Florida, from Lieut. A. W. Vogdes. Coral, Bermuda, from H. A. Slocum.

*Fossils.*—A human skeleton, together with other bones, teeth, and shells, from a shell-mound at Tampa, Florida, presented by Lieut. A. W. Vogdes.

*Eozoon Canadense*, from the Laurentian limestone of Canada, from the Geological Survey of Canada through W. C. Stevenson.

Four fossil fishes from the tertiary of Wyoming, presented by Joseph Jeanes.

Fragment of jaw, tooth, and two vertebræ of *Mosasaurus*; eighteen vertebræ of crocodile; marginal bone of a turtle, and fragments of a fish jaw; and a fossil sponge from the marl and cretaceous limestone of New Jersey, presented by Col. T. M. Bryan.

Ten fossils, mostly Ammonites, from Chili, in exchange from Prof. Domeyko.

Incisor of Kangaroos and Canine of *Diprotodon*, Queensland, from Dr. Geo. Bennett.

Several molars of *Rhinoceros*, Colorado, from Dr. Jos. Leidy.

Twenty-eight Upper Silurian fossils, Dudley, England, from T. A. Conrad.

Six Devonian fossils, Richmond, Ind.; a fossil plant, foot track, and rain drop markings, from the triassic shales, Bucks County, Pa., presented by Dr. G. T. Heston.

Shark tooth and a bone, marl of Fostertown, N. J., from H. M. Potts; three reptile bones, N. J., from R. H. Nash; two teeth of *Mosasaurus*, Lumberton, N. J., from Elwood K. Phillips; and *Idonearca*, Barnesboro, N. J., from Charles Berry.

Carboniferous fossils, Arkansas, from W. E. Rowell; large coral fossil, Pa., from W. S. Vaux; and *Polypodium Hochsteteri* and fossil shells, from H. W. Mitchell.

Three samples of Diatomaceous earth, California, from the California State Geological Society.

Two cetacean vertebræ, Ashley R., S. C., from Philip Wineman; and fragment of antler, same locality, from C. S. Bement.

Thirteen species fresh water shells, lignite, and calcaneum of *Canis*, from bluff on Mississippi, near Alton, Ill.; several fossils from Cuba, and others from East Park, Philadelphia, presented by John Ford.

Two *Streptelasma corniculum*, near Clifton, England, from Fanning C. Tucker; petrified wood, Launceston, Tasmania, from A. Harrap; cast of spine of *Edestus*, Collinsville, Ill., from Dr. G. Hambach; and photograph of skull of *Bison latifrons*, from Cincinnati Society of Natural History.

*Ethnological and Miscellaneous.*—The interesting and valuable collection, illustrating the stone age, made by the late Franklin Peale, and bequeathed by him to the American Philosophical

Society, has been deposited in the Academy, on condition of being returned on demand.

A collection of wearing apparel, collected during the years 1838-42 in the Hawaiian, Society, Samoan, and other Pacific Islands, mostly made from bark of the paper mulberry, *Broussonetia papyrifera*, consisting of the following: 27 tapa dresses, mostly Hawaiian, 4 bed curtains, 3 marros or waist-cloths, 7 mats, Hawaiian and Samoan, 2 pieces of imprinted tapa, 1 oiled bark cloth and a table cover, a number of waist ribbons and imitation shawls, 2 Samoan fishing dresses, made of the leaves of the *Draecena* or dragon tree, 2 work-bags, 4 school satchels, 2 poi bowls, an ava bowl used in making the intoxicating drink of the Pacific Islands; a fine specimen of the native New Zealand dress, made of *Phormium tenax* and dog's hair, Fiji nose flute, pandean pipes from Samoa, a kris from the Sooloo Islands, ancient fly-brush, royal Hawaiian necklace, an apparatus used by the natives to catch fish, stamp used in printing tapa, Hawaiian and Samoan fishing lines, sennit of three kinds, tortoise shell bracelet from Hawii, Tahitian drinking cup made of a cocoanut, Hawaiian quoit and an ancient mirror, gourd containing the perfumed oil with which the Tahitians anoint themselves, dagger from King's Mill Islands, go-go or soap bark from the Phillipines, specimens of the ava root (*Piper methisticum*), Hawaiian and Samoan necklace, money bag from New Granada, doll dressed in the costume worn by the ladies of Lima about 1840, and various other articles, presented by Titian R. Peale.

Eight specimens of stone implements, from Chester County, Pa., from E. A. Barber.

Native Indian bows and arrows, Central America, from S. S. Haldeman.

A large terra-cotta water filter, presented by Dr. J. M. de Silva Coutinho.

Spurs worn by the "Guasos," of Chili, in 1826, rowel 4 inches in diameter, from Dr. Ruschenberger.

Indian relics, stone muller for grinding pigments, from Joseph Willcox.

Esquimo fishhook from Ivigtut, Greenland, from Lieut. W. A. Mintzer.

Model of Parthenon, Athens; model of pyramid of Cheops, made from the original stone; Japanese pillow and slippers; na-

tive bows and arrows, Sandwich Islands; Malay dirk; clay lamp from Egyptian tomb; brick from the great wall of China, presented by Mrs. Paul Shirley.

Stone implements, consisting of chisels, arrowheads, ornaments, fragments of pottery, etc., from the banks of the Susquehanna near Lewisburg, Union County, Pa., from C. T. Grier.

Pottery, arrowheads from a shell mound at Tampa, Florida, from Lieut. A. W. Vogdes.

One skeleton (adult) one ditto (child), and nine skulls from Peru, presented by Dr. C. A. Siegfried, U. S. N.

Specimen of carved stone pipe from North Western America, from C. S. Bement.

Indian pestle, found on a farm in Bushkill Township, Pike County, Pa., from Maxwell Somerville.

A skull and human bones taken from an Indian mound five miles northwest of Shipman, Ill., Oct. 1875, also shells, pottery, etc. Stone axe from the face of a cutting for a roadway in the outer margin of the Mississippi River, one mile above Alton, Ill. Stone axe from Macoupin County, Ill. Stone axe from near Norristown, Montgomery County, Pa.; six arrowheads from Ohio, three ditto from Illinois, and two from Indiana, presented by John Ford.

Respectfully submitted by

JOSEPH LEIDY,

*Chairman of Curators.*

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## REPORT OF THE BIOLOGICAL AND MICROSCOPICAL SECTION.

The year just closed has witnessed a marked improvement in the interest manifested in this Section, evinced both in the more liberal display of microscopical objects and the increased number of communications upon allied subjects, which have had the gratifying effect of largely augmenting the attendance upon the meetings. This latter condition has also been contributed to by a modification of the By-laws providing that the meetings of the Section shall be held semi-monthly instead of monthly; while the labors of a business committee, appointed to provide and arrange material for the meetings, have been so efficiently performed that the Section takes pleasure in also recognizing that influence.